



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	Medical Doctorate in Tropical Medicine
(2) Department offering the programme.	Tropical Medicine Department
(3) Department responsible for teaching the course.	Tropical Medicine Department
(4) Part of the programme.	3 rd part
(5) Date of approval by the Department's council	11-5-2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Tropical Hepatology
(8) Course code.	TROP 612HEP
(9) Credit hours	12 credit hours
(10) Total teaching hours.	8 theoretical, 2 clinical and 2 field hours

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows.

The aim is to enable students to acquire skills and attitudes to understand the mechanism and biological aspects of hepatic disorders and their interaction with the host and to use this knowledge in combination with epidemiological and public health approach to develop rational strategies for the control and treatment of liver diseases.

(2) Intended Learning Outcomes (ILOs).

Intended learning outcomes (ILOs); Are four main categories: knowledge& understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

A-Knowledge and Understanding

- A-1. Identify the pathophysiology of disorders affecting the liver and recognize clinical, laboratory, radiological and pathological aspects concerning these topics.
- A-2. Recognize how to approach the patient with liver disorder and in an organized matter.
- A-3. Explain the clinical consequences of most of hepatic conditions and its clinical implications.
- A-4. Memorize liver disorders which has an infective etiology and be able to diagnose it appropriately.
- A-5. Identify toxin mediated liver injuries and get the best emergent approach towards its management
- A-6. Recognize the differential diagnosis and diagnostic methods of various immune diseases of the liver and review its treatment and general management plane.
- A-7. Describe vascular diseases of the liver and its pathological origin.
- A-8. Identify on scientific basis inherited diseases of the liver and relate clinical features to the optimum precise diagnosis and set a management protocol for each disorder.
- A-9. Recall the recent international guidelines for management of liver tumors and malignancies and set a plane for practical intervention
- A-10. Describe the important aspects of liver transplantation and the most recent guidelines concerning the post-transplant period.
- A-11. Recognize gallbladder disorders and identify how to manage stones and relate its importance to hepatic disorders in general.

B- Intellectual skills

- B1. Formulate the basic science of hepatology into clinical practice to explain the various phenomena of hepatic disorders using infection control and safety measures
- B2- Construct an initial course of management for patients with serious infectious conditions requiring critical care
- B3- Arrange appropriate management strategies (both diagnostic and therapeutic) for patients with common endemic medical conditions, both acute and chronic conditions, and those requiring short- and long-term treatment.
- B4- Assess factors that place individuals at risk for disease or injury, to select appropriate tests for detecting patients at risk for specific diseases or in the early stage of disease, and to determine strategies for responding appropriately
- B5- Determine, analyze, and synthesize relevant and current data and literature, using information technologies and library resources, in order to help solve a clinical problem (EBM)
- B6- Propose clinical decisions utilizing methods, which integrate the best research evidence with clinical expertise and patient values (EBM)

C-Professional/practical skills

- C 1- Construct and conduct clinical procedures, and analyse and interpret data such as electrocardiography, abdominal ultrasonography, upper and lower gastrointestinal endoscopy.
- C 2- Estimate problems and select the most appropriate and cost effective diagnostic procedures for each problem. Interpret patient's history, physical symptoms, physical signs and laboratory test findings in terms of anatomic, pathologic and functional diagnostic significances.
- C 3- Perform routine technical procedures including at a minimum arterial puncture, lumbar puncture, inserting a nasogastric or Sungstaken tube, inserting a Foley's catheter, thoracocentesis and paracentesis.
- C 4- Construct appropriate management strategies for patients with gastro-intestinal hemorrhage, both in acute and chronic states, and those requiring short- and long-term treatment.
- C 5- Differentiate components or processes to address specific public health problems and issues needed.
- C 6-Perform and interpret the results of commonly used diagnostic and therapeutic procedures in management of different hepatic diseases using evidence based medicine
- C 7- Estimate the role of cultural, social, and behavioral factors in determining disease, disease prevention, health promoting behavior, and medical service organization and delivery.

D- Communication & Transferable skills

- D-1. Establish professional relationships with patients, their families and community that are characterized by understanding, trust, respect, sympathy and confidentiality.
- D-2. Deliver information to the patient and family (as appropriate) in a human manner, and in such a way that it is easily understood, encourages discussion and promotes the patient's participation in decision-making.
- D-3. Demonstrate altruism, honesty and integrity and respect in all interactions with patients, families, colleagues, and others with whom physicians must interact in their professional lives.
- D-4. Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.
- D-5. Write clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge summaries and follow up notes.
- D-6. Be aware of the ethical behavior expected of doctors towards patients with recognition of patients' rights, particularly with regard to confidentiality and informed consent.
- D-7. Make effective use of information technology as web and internet. Database work.

(3) Course content.

Tropical Hepatology	Lectures	Clinical	Field
Pathophysiology of the liver	5	–	–
Approach to patients with liver diseases	5	10	–
Clinical consequences of liver disease	10	10	40
Liver diseases due to infectious agents	20	10	40
Toxin mediated liver injury	10	–	–
Immune diseases of the liver	10	10	–
Vascular diseases of the liver	10	–	–
Inherited diseases of the liver	10	–	–
Liver affected by other organs and conditions	10	–	–
Tumors of the liver	15	20	40
Hepatic Transplantation	10	–	–
Management of gallbladder stones	5	–	–
Total teaching hours	120	60	120
Credit hours	8	2	2

(4) Teaching methods.

4.1. Lectures.

4.2. Clinical demonstration and bedside clinical teaching.

4.3. Observation of bedside and diagnostic procedures

4.4. Problem-solving (case study) sessions

4.5. Training for both diagnostic and therapeutic procedures.

4.6. Tutorial

4.7. Seminars

4.8. Workshops

(5) Assessment methods:

5.1. Written exam. For assessment of A1 to A11 and B1 to B6

5.2. Oral exam. For assessment of B1 to A6 and C1 to C7

5.3. OSCE exam. For assessment of A1 to A11, B1 to B6, C1 to 7, D1 to D7.

5.4. MCQ. For assessment of A1 to A11 and B1 to B4

Assessment schedule.

Assessment 1:

After 6 month from M.D. registration (without marks).

Assessment 2:

After 30 month from M.D. registration (written, oral and practical exam with marks).

Assessment 3:

Log book required activities to go through 2nd part examination.

Assessment 4:

Practical tests and/or exam as well as the seminar throughout the course and lab rotation (without marks).

Assessment 5:

The candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff (without marks).

(6) Percentage of each Assessment to the total mark. (160)

Written exam. (80)

Oral exam. (30)

OSCE (30)

MCQ: 20

Other assessment without marks.

-Log books for presenting clinical cases

-Quiz.

(7) References of the course.

6.1. Hand books: Oxford Handbook of Tropical Medicine, Handbook of Liver Diseases, A guide to physical examination, Barbara Bates, Colour Atlas of Tropical Medicine and Parasitology.

6.2. Text books: Manson's Tropical diseases, Hunter Tropical Medicine and Emerging Infectious Diseases, Diseases of the liver and biliary system by Sheila Sherlock and James Dooley, Oxford text book of clinical hepatology, Sleisenger and Fordtran's gastrointestinal and liver diseases, Harrison's Principle of internal medicine, Cecil Textbook of medicine.

6.3. Journals: Journal of Tropical Medicine and Hygiene, American journal of tropical medicine, Journal of Hepatology, Hepatology, Liver, Gut, Journal of digestive disease, Gastro-intestinal endoscopy, Journal of clinical microbiology, Journal of virology.

6.4. Websites: <http://www.asp.unl.edu>, <http://www.parasitology.org.uk>, <http://www.dpd.cdc.gov/dpdx>, <http://www.phage.org/black09.htm>, [http://www.microbe.org/microbes/virus or bacterium.asp](http://www.microbe.org/microbes/virus%20or%20bacterium.asp), <http://www.bact.wise.edu/bact330/330Lecturetopics>, <http://www.microbelibrary.org>, <http://www.hepnet.com/hepb.htm>

6.5. Others: Lecture CDs available on request.

(8) Facilities and resources mandatory for course completion.

1- lecture hall.

2- Teaching aid as computer, data show projector, laser pointer.

3- Clinical Facilities in tropical unit during field visits including the inpatient rooms, the endoscopy unit and the Ultrasound guided intervention unit.

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